

DOW™ MDPE NG6995

Medium Density Polyethylene Resin

The Dow Chemical Company

Message:

MPDE NG 6995 is a Medium Density Polyethylene Resin produced in the Gas Phase technology. It is designed for blown film applications providing good processability and seal properties. It offers good tear and impact resistance.

Main Characteristics:

Monolayer and multilayer blown film

General purpose bags

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 3.2a

European Commission Regulation (EU) No 10/2011

Consult the regulation for complete details.

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
		Europe No 10/2011	
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.939	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.38	g/10 min	ASTM D1238
190°C/21.6 kg	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	19.8	MPa	ASTM D638
Fracture, molding	33.7	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	1000	%	ASTM D638
Flexural Modulus (Compression Molded)	850	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	15	µm	
Film Puncture Resistance	5.79	J/cm³	ASTM D5748
secant modulus			ASTM D882
1% secant, MD	1130	MPa	ASTM D882
2% secant, MD	798	MPa	ASTM D882
1% secant, TD	1290	MPa	ASTM D882
2% secant, TD	887	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Yield	16.0	MPa	ASTM D882
TD: Yield	18.0	MPa	ASTM D882
MD: Fracture	34.8	MPa	ASTM D882
TD: Fracture	26.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	310	%	ASTM D882
TD: Fracture	610	%	ASTM D882
Dart Drop Impact	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	10	g	ASTM D1922
TD	270	g	ASTM D1922
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	76	J/m	ASTM D256
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	12		ASTM D2457
Haze	62	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	209	°C	
Extrusion instructions			

Die Gap: 1.2 Mm Blow-up Ratio: 3.6 Output: 7.5 kg/h Die Temperature: 437°F Melt Temperature: 409°F Temperature Profile: 356-392-419-437°F

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